

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080994 A1

- (51) International Patent Classification⁷: **G01N 33/68**
- (21) International Application Number:
PCT/SE2005/000234
- (22) International Filing Date: 21 February 2005 (21.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/547,734 25 February 2004 (25.02.2004) US
- (71) Applicant (for all designated States except US): **ASTRAZENECA AB** [SE/SE]; S-151 85 Södertälje (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CIACCIO, Paul** [US/US]; AstraZeneca Wilmington, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437 (US). **MILANO, Joseph** [US/US]; AstraZeneca Wilmington, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437 (US). **POGNAN, Francois** [FR/US]; AstraZeneca Wilmington, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437 (US).
- (74) Agent: **ASTRAZENECA**; Global Intellectual Property, S-151 85 Södertälje (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/080994 A1

(54) Title: **BIOMARKER DETECTION ASSAYS**

(57) Abstract: A method for identifying compounds capable of modulating the Notch pathway. The test compound is either administered to an animal or is brought into contact with a cell in culture, after which the expression of the basic helix-loop-helix transcription factor Math1 in a sample from said animal or cell is directed. A change in Math1 expression in the presence of said test compound as compared to in the absence of said compound indicates that said compound modulates the Notch pathway.